CLAIMS

What is claimed is:

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- A method of extracting or concentrating the polar constituents from plants of the family Brassicaceae, comprising:
- combining plant material from the Family Brassicaceae and with an alcohol solvent;

agitating the combination;

filtering the combination to resolve an alcohol remnant substantially higher in polar components and lower in lipidic components than the plant material; and

evaporating the alcohol to resolve the polar components.

- The method of claim 1 wherein the plant material is the hypocotyls of the family Brassicaceae.
- 15 3. The method of claim 1 wherein the plant is of the genus Lepidium.
 - 4. The method of claim 1 wherein the method further comprises,

washing, drying, and grinding the plant material, prior to the step of combining with the alcohol solvent.

The method of claim 4 wherein the drying of the plant material is selected from the dyring methods consisting of, evaporation and heating.

- The method of claim 4 wherein the final moisture content of the washed, 6. dried, and ground plant material is about between 1 and 20 percent. The method of claim 1 where the alcohol solvent is Methanol. 7.
 - The method of claim 1 wherein the plant material is combined with an alcohol 8. in a 1:4 ratio
 - The method of claim 1 where the step of agitation comprises stirring. 9.

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- 10 The method of claim 1 where the step of agitation may be accompanied with heating.
- The method of claim 1 where the step of filtring comprises filtering with at 11. least two filters having a progressive decrease in pore size. 15
 - The method in claim 1 where the plant material is first placed in a bag 12. comprising a porous filter material, and then combined with an alcohol solvent.
- The method of claim 1 where the plant material may be macerated and then 20 combined with an alcohol solvent.

- 14. The method of claim 1 wherein the step of evaporating the alcohol remnant to resolve the polar components is selected from the group of evaporating method consisting of; evaporation, heating, spray drying, freeze drying, and vacuum drying.
- 5 15. The method of claim 1 wherein the polar components are concentrated and the lipidic components reduced relative to the parent plant material.
 - 16. An extract of family Brassicaceae, comprising:
- a pharmaceutical dosage unit with concentrated polar components relative to $$10$\,$ the lipidic components.
 - 17. The extract in claim 16 wherein the pharmaceutical dosage unit increases the growth of fish.
 - 15 18. The extract in claim 16 wherein the pharmaceutical dosage unit increases the survivability of fish.
 - 19. The extract in claim 16 wherein the pharmaceutical dosage unit increases the biomass of fish.
 - The extract in claim 16 wherein the pharmaceutical dosage unit increases the feed conversion ratio of fish.

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- 21. The extract in claim 16 wherein the pharmaceutical dosage unit further comprises cereal grains.
- 5 22. The extract in claim 21 wherein the pharmaceutical dosage unit further comprises vitamins.
 - 23. The extract in claim 21 wherein the pharmaceutical dosage unit is in the form a fish food selected from the group consisting of, pellets and fish meal.